

**NETWORK TRANSCEIVER FOR EXTENDING THE BANDWIDTH
OF OPTICAL FIBER-BASED NETWORK INFRASTRUCTURE**

Abstract of the Disclosure

A multimode wavelength division multiplexing (WDM) network transceiver and method includes a plurality of optical transmitters and a multiplexer
5 operatively connected to each optical transmitter for receiving optical communications signals and multiplexing the signals into a multimode wavelength division multiplexed optical communications signal. A demultiplexer receives a multimode wavelength division
10 multiplexed optical communications signal and demultiplexes the signal into a plurality of demultiplexed optical communications signals that are then received and detected within a plurality of optical receivers.

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